

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandra, Vignnia 22313-1450 www.uspto.gov

APPLICATION NO.	PLICATION NO. FILING DATE FIRST NAME		R ATTORNEY DOCKET NO. CONFI			
09'685,382	10/10/2000	Kurt A. Carlsen	BUR 9-2000-0061-USI	4598		
21918	7590 08/13/2003					
DOWNS RACHLIN MARTIN PLLC 199 MAIN STREET P O BOX 190			EXAM	EXAMINER		
			TRAN, HIEN THI			
BURLINGTON, VT 05402-0190			ART UNIT	PAPER NUMBER		
			1764			

DATE MAILED: 08/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

						[ <del>†</del> ]
		Appl	ication No.		Applicant(s)	
	09/6	09/685,382 CARLSEN, KURT A			Г А.	
Office A	Exan	niner		Art Unit		
		Hien	Tran		1764	
	DATE of this comm	unication appears o	n the cover	sheet with the co	rrespondence a	ddress
Period for Reply						
after SIX (6) MONTHS from the period for reply specific NO period for reply is signerable. Failure to reply within the Any reply received by the earned patent term adjust		INICATION. ons of 37 CFR 1.136(a). In immunication. y (30) days, a reply within th in statutory period will apply pply will, by statute, cause the ins after the mailing date of the	no event, however ne statutory minir and will expire S ne application to	er, may a reply be time num of thirty (30) days IX (6) MONTHS from th become ABANDONED	ly filed will be considered time e mailing date of this of (35 U.S.C. § 133).	.ly. communication.
Status		. El	200			
i	to communication(s)	_				
2a)⊡ This action is		2b) This action				
	pplication is in condit cordance with the pra					ne merits is
4)⊡ Claim(s) <u>2-26</u>	6 is/are pending in th	e application.				
	ve claim(s) <u>11-14 ar</u>		drawn from	consideration.		
5) Claim(s)		<del>, , , , , , , , , , , , , , , , , , , </del>				
6)  Claim(s) <u>2-10</u>	<del></del>	rejected.				
7) Claim(s)						
8) Claim(s) <u>2-26</u>			n requireme	nt		
Application Papers	are subject to resum	otion ana/or diodio	ir roquii omo			
9)☐ The specificati	on is objected to by	the Examiner.				
10) The drawing(s)	) filed on is/ar	e: a) ☐ accepted or	b) objecte	d to by the Exam	iner.	
Applicant may	not request that any o	objection to the drawi	ng(s) be held	in abeyance. See	e 37 CFR 1.85(a).	
11) The proposed						
If approved, c	orrected drawings are	required in reply to th	is Office acti	on.		
12) The oath or de	claration is objected	to by the Examine	r.			
Priority under 35 U.S.C	C. §§ 119 and 120					
13) Acknowledgm	ent is made of a cla	im for foreign priori	ty under 35	U.S.C. § 119(a)-	(d) or (f).	
a)	ome * c)☐ None of	f:				
	d copies of the priori		been receiv	ved.		
<u> </u>	d copies of the priori				n No	
3.☐ Copies app	of the certified copie lication from the Inte ed detailed Office ac	es of the priority doc ernational Bureau (f	cuments hav	ve been received 7.2(a)).	in this National	Stage
14) Acknowledgme			•			d application).
	lation of the foreign l	anguage provision	al applicatio	n has been rece	ived.	,
Attachment(s)	io mado or a oram		,			
Notice of References C     Notice of Draftsperson     Information Disclosure	ited (PTO-892) s Patent Drawing Review Statement(s) (PTO-1449		5) 🔲 1	nterview Summary ( Notice of Informal Pa Other:		
S. Patent and Trademark Office PTO-326 (Rev. 04-01)		Office Action Sur	mmary	þ	art of Paper No. 5	

Application/Control Number: 09/685,382 Page 2

Art Unit: 1764

### **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election of group I, claims 1-10, 15-18, in Paper No. 5 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 11-14, 19-25 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 4.

### **Drawings**

3. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 5/27/03 have been disapproved because they introduce new matter into the drawings. 37 CFR 1.121(f) states that no amendment may introduce new matter into the disclosure of an application. The original disclosure does not support the showing of heating element 35 surrounding the enclosure 24.

## Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2-10, 15-18, 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Page 3

Application/Control Number: 09/685,382

Art Unit: 1764

In claim 26, "adapted for" is vague and indefinite as it has been held that the recitation that an element is "adapted for " perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138. See claim 15 likewise.

In claim 5, line 2 it is unclear as to which chamber is implied (note the two chambers in claim 26). See claim 7 likewise.

In claim 8, it is unclear as to where the heating element is shown in the drawings.

In claim 10, line 2 "the at least one chemical component" lacks positive antecedent basis as it is merely recited in an intended use clause (note claim 26). Also the chemical component is not a part of the scrubber and therefore the claim is not further limiting.

In claim 17, line 1 "the non-toxic part" lacks positive antecedent basis as it is merely recited in an intended use clause. Also the non-toxic part is not a part of the scrubber and therefore the claim is not further limiting.

In claim 18, line 1 "the toxic part" lacks positive antecedent basis as it is merely recited in an intended use clause. Also the toxic part is not a part of the scrubber and therefore the claim is not further limiting.

## Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1764

7. Claims 26, 3, 5, 7, 10, 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Shiban et al (5,271,908).

With respect to claims 26, 3, Shiban et al discloses an apparatus comprising: an enclosure defining a second chamber for receiving exhaust gas having a gas inlet 12, a gas outlet 13, the inlet and outlet being in fluid communication with said chamber; at least one substrate/baffle 14 contained within the enclosure between the gas inlet and the gas outlet; said substrate having a film deposition surface. The first chamber for producing exhaust gas is inherent therein (col. 3, lines 6-17).

With respect to claims 5, 7, Shiban et al discloses a plurality of substrates 14 forming a series of baffles within the chamber, said series of baffles being positioned to define a serpentine passageway (Fig. 1).

With respect to claims 10, 17-18, the claim is directed to method limitation which is no patentable in apparatus claim and therefore the apparatus of Shiban et al structurally meets the claims. In any event, Shiban et al discloses that the exhaust gas includes a chemical component, such as silicon, arsenic (col. 1, lines 25-50).

With respect to claims 15-16, Shiban et al discloses a first enclosure defining a first chamber for receiving the gas (the bottom portion in Fig. 1); a substrate/baffle 14 located in the first enclosure; a second enclosure defining a second chamber (the middle portion and the last portion in Fig. 1) in fluid communication with said first chamber for receiving at least a portion of the gas.

As best understood, instant claims 26, 3, 5, 7, 10, 15-18 structurally read on the apparatus of Shiban et al.

Art Unit: 1764

8. Claims 26, 3-5, 7-8, 10, 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Blickle et al (3,607,104).

With respect to claims 26, 3, Blickle et al discloses an apparatus comprising: an enclosure defining a second chamber for receiving exhaust gas having a gas inlet 11, a gas outlet 13, the inlet and outlet being in fluid communication with said chamber; at least one substrate/baffle 2, 12 contained within the enclosure between the gas inlet and the gas outlet; said substrate having a film deposition surface. The first chamber connected to the second chamber is inherent therein.

With respect to claim 4, Blickle et al discloses that the baffle 2 includes a plurality of apertures (Fig. 1).

With respect to claims 5, 7, Blickle et al discloses a plurality of substrates 12 forming a series of baffles within the chamber, said series of baffles being positioned to define a serpentine passageway (Fig. 1).

With respect to claim 8, Blickle et al discloses provision of a heating means (col. 2, lines 63-64).

With respect to claims 10, 17-18, the claim is directed to method limitation which is no patentable in apparatus claim and therefore the apparatus of Blickle et al structurally meets the claims.

With respect to claims 15-16, Blickle et al discloses a first enclosure defining a first chamber 3 for receiving the gas; a substrate/baffle 12 located in the first enclosure 3; a second enclosure defining a second chamber 4 in fluid communication with said first chamber for receiving at least a portion of the gas.

Art Unit: 1764

As best understood, instant claims 26, 3-5, 7-8, 10, 15-18 structurally read on the apparatus of Blickle et al.

## Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shiban et al (5,271,908) in view of Smith et al (5,213,767).

Shiban et al fails to disclose whether the substrate may be made of quartz. However, Smith et al discloses provision of using quartz material in making container.

It would have been obvious to one having ordinary skill in the art to alternately select an appropriate material, such as quartz, as taught by Smith et al in the apparatus of Shiban et al, since it has been held to be within the general skill of a worker in the art to select a known

Art Unit: 1764

material on the basis of its suitability for the intended use as a matter of obvious design choice. In *re Leshin*, 125 USPQ 416.

12. Claims 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiban et al (5,271,908) or Blickle et al (3,607,104).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide more than one baffle with apertures, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

It would have been obvious to one having ordinary skill in the art to construct the substrate so as it is removable and reusable in the apparatus of either Shiban et al or Blickle et al for cost saving.

### Response to Arguments

13. Applicant's arguments filed 5/27/03 have been fully considered but they are not persuasive.

Applicants argue that the apparatus of Shiban et al or Blickle et al is not adapted for chemical vapor deposition. Such contention is not persuasive as there is no limitation recited in the instant claims to distinguish the difference between the prior art and the instant invention. It should be noted that Shiban et al and Blickle et al disclose all of the structural elements recited in the instant claims.

Applicants argue that the perforated wall 21 in Blickle et al is not a baffle with apertures as recited in the claims. Such contention is not understood as there is no limitation to

Art Unit: 1764

differentiate the perforated wall of Blickle et al and the baffle having apertures of the instant claims.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

#### Conclusion

14. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/685,382 Page 9
Art Unit: 1764

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is 308-4253. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (703) 308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0661.

Jan 3 ( . 2)

HT August 11, 2003 Hien Tran Primary Examiner Art Unit 1764